II TRACO POWER

2023 | DC/DC Converters AC/DC Power Supplies

Product Portfolio



TRACO POWER

Company Profile

TRACO Electronic AG is a Swiss company with headquarters based in Baar, Switzerland. As a leading power supply specialist with more than 40 years experience we are dedicated to the design and manufacturing of high quality DC/DC and AC/DC power conversion products.

TRACO markets its products worldwide under the registered trademark TRACO POWER. Our mission is to provide our customers with optimal power supply solutions in terms of performance, quality and cost for their individual application.

Product Range

TRACO POWER's product range focuses on the four vertical markets:

Industrial, Medical & Healthcare, Railway / Ruggedized and Building Technology & Household.

Within these markets TRACO offers one of the most comprehensive programs for standard products in application areas such as:

Test & Measurement, Automation & Control, Robotics, Machinery, Therapy, Diagnostic, Laboratory, Home & Office Automation, White Goods, Transportation, Construction & Farming, Information Technology, Smartgrid, Renewable Energy, Oil & Gas.

Detailed product data can be downloaded from our website: www.tracopower.com

lcons used throughout the catalog



High isolation products for medical applications

- Product certification according to IEC/EN/ES 60601-1 3rd edition for 2 × MOPP
- EMC emission according to IEC 60601-1-2 ed. 4
- Risk management process according to ISO 14971 including risk management file
- Acceptance criteria for electronic assemblies according to IPC-A-610 Level 3
- Design and production according to ISO 13485 quality management system
- 5-year product warranty



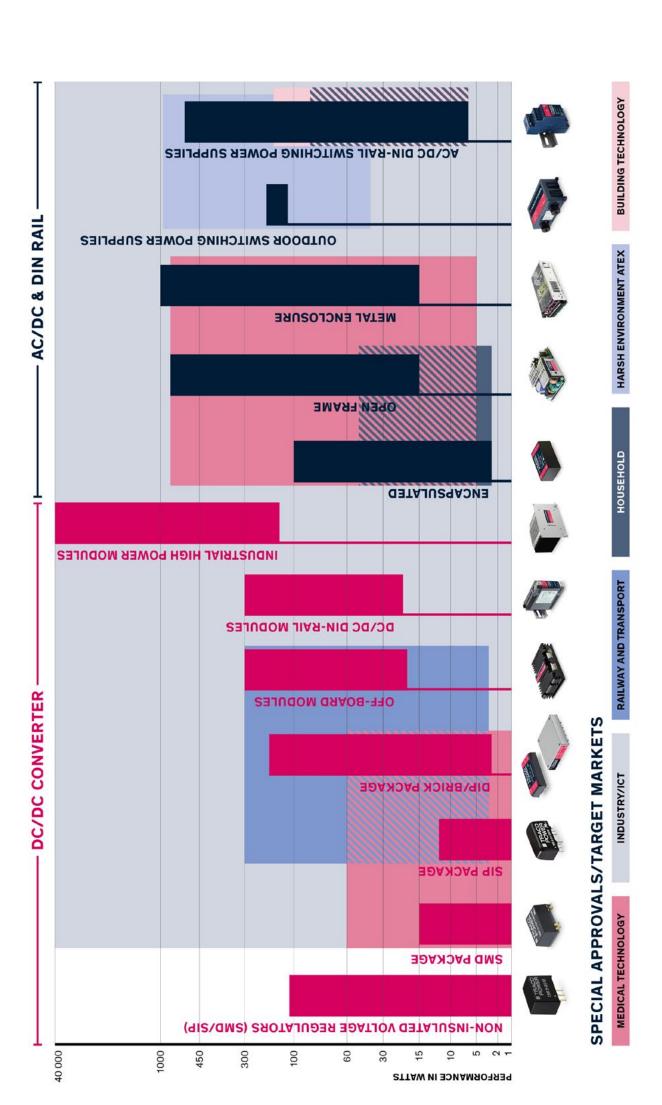
Ruggedized DC/DC converters for railway applications

- Approved to EN 50155 for electronic equipment used on rolling stock
- Shock and vibration test according EN 61373
- Qualification for the fire behavior of components according to EN 45545-2



Building Technology/Household

Product certification according to IEC/EN 60335-1



DC/DC Converters

Non-Isolated Step Down DC/DC Converters (POL) in SIP Package	0.5 – 30 Amp	5
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AC/DC Power Supplies

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Non-Isolated Step Down DC/DC Converters (POL) in SIP Package

0.5 - 30 Amp

- Alternative to linear voltage regulators
- High efficiency up to 97%
- No heat-sink required
- Over-temperature protection
- Excellent line / load regulation
- Operating temperature -40 to +85°C

0.5 AMP

- +Vin/+Vout
- Input 4.75-32 VDC
- 1.5 to 15 Vout fixed
- LM78xx compatible
- 11.5 × 7.6 × 10.2 mm



TSR 0.5

- **0.6 AMP**
- +Vin/+Vout
- Input 9.0-72 VDC 3.3 to 24 Vout fixed
- LM78xx compatible
- 12 × 8.6 × 13.4 mm



TSR 0.6WI

1 AMP

- +Vin/+Vout
- Input 1.2-36 VDC 1.5 to 15 Vout fixed
- LM78 compatible
- 11.7 × 7.6 × 10 mm



TSN₁

TSR 1

1 AMP

- +Vin/+Vout
- Input 6-36 VDC
- 3.3 and 5.0 Vout fixed
- Cost optimized design
- LM78xx compatible
- 11.5 × 7.6 × 10.2 mm



1.0 AMP

- +Vin/+Vout
- Input 9.0–72 VDC
- 3.3 to 24 Vout fixed
- LM78xx compatible
- 12.1 × 8.6 × 17.5 mm

TSR 1WI

1 AMP

- -Vin/-Vout
- Input -7.0-32 VDC
- -5.0 to -15 Vout fixed
- LM79 compatible
- 11.7 × 7.5 × 16.5 mm



TSR 2

1 AMP

- +Vin/+Vout or -Vout
- Input 4.6-36 VDC
- (±)1.5 to 15 Vout fixed
- 11.7 × 7.5 × 10.2 mm

TSRN 1

- 1.5 AMP
- +Vin /+Vout ■ Input 7-36 VDC
- 3.3, 5.0, 12 Vout fixed
- Cost optimized design
- LM78xx compatible
- 9.6 × 6.4 × 14.9 mm



TOS

TSR 1.5E

2 AMP

- +Vin/+Vout
- Input 3.0-36 VDC
- 1.2 to 15 Vout fixed
- LM78 compatible
- 14 × 7.5 × 10.1 mm



3 AMP

- +Vin/+Vout or -Vout
- Input 2.5-30 VDC
- (±) 0.6 to 15 Vout adjust.
- Remote On/Off
- Open frame
- 16.5 × 10.4 × 6 mm

TSR 3

6-30 AMP



- Input 2.4-14 VDC
- 0.75 to 5.5 Vout adjust.
- Remote On/Off
- Open frame



Non-Isolated Step Down DC/DC Converters (POL) SMD Package

0.5 - 30 Amp

- Alternative to linear voltage regulators
- High efficiency up to 97%
- No heat-sink required
- Over-temperature protection
- Excellent line / load regulation
- Operating temperature -40 to +85°C

0.5 AMP

TSR 0.5SM

1 AMP

- +Vin/+Vout
- Input 3.0-36 VDC
- 1.2 to 15 Vout fixed
- 15.2 × 9.3 × 7.6 mm



TSR 1SM

1 AMP

+Vin/+Vout or -Vout

- Input 3.0-42 VDC
- (±)1.2 to 15.5 VDC adjust.
- Remote On/Off
- 15.2 × 9.3 × 7.3 mm



TSRN 1SM



- Input 4.75-32 VDC
- 1.4 to 15.5 Vout adjust.
- Remote On/Off
- 15.3 × 9.6 × 9.2 mm



6-30 AMP

TOS

- +Vin/+Vout
- Input 2.4-14 VDC
- 0.75 to 5.5 VDC adjust.
- Remote On/Off
- Open frame



SMD DC/DC Converters

1 - 15 Watt

- MSL Level 2a or better
- Operating temperature -40 to +85°C
- 1500 VDC I/O-isolation (standard)
- Single and dual output models
- Washable models on request
- Available in tape & reel package

1 WATT

TES 1N

NEW under development

- Cost efficient design
- ±10% Input 5, 12, 24 VDC
- 3.3 to 15 VDC (unregulated)
- 13.6 × 8.8 × 7.85 mm (single)
- 15.2 × 8.4 × 7.85 mm (dual)

2:1/3:1 Input 4.5 to 75 VDC



1 WATT

- ±10% Input 5, 12, 24 VDC
- 3.3 to 15 VDC (unregulated)
- 13.7 × 8.0 × 7.0 mm (single)
- 16.2 × 8.0 × 7.0 mm (dual)



TDN 1WISM

TES 1

1 WATT

TES_{1V}

- 3000 VDC I/O-isolation
- ±10% Input 5, 12, 24 VDC
- 3.3 to 15 VDC (unregulated)
- 16.3 × 8.0 × 8.0 mm



1 WATT

3.3 to 24 VDC

■ 11.9 × 11.3 × 8.0 mm

TRN 1SM

- 4:1 Input 4.5 to 75 VDC ■ 3.3 to 24 VDC

1 WATT

- Remote On/Off
- 13.2 × 9.1 × 10.2 mm



1 WATT

- TMR 1SM
- 2:1 Input 4.5 to 75 VDC
- 5.0 to 24 VDC
- Remote On/Off
- 18.9 × 13.7 × 8.7 mm



TMR 2WISM

1 WATT

TRI 1SM **NEW**

- Unregulated
- 3000 VAC I/O-isolation rated for 480 VACrms working voltage (reinforced)
- 8000 VDC peak isolation (1s)
- ±10 % Input 5 to 24 VDC
- 5.0 to 15 VDC
- 18.9 × 13.7 × 10.5 mm



2 WATT

- ±10 % Input 5, 12, 24 VDC
- 3.3 to 15 VDC (unregulated)
- 16.3 × 9.3 × 8.9 mm



TRS 2

TES 2H

2 WATT

- 4:1 Input 4.5 to 75 VDC 5.0 to 24 VDC
- Remote On/Off
- IEC/UL 62368-1
- 19.0 × 14.9 × 8.7 mm



2 WATT

TDR 2(WI)SM

- Epoxy over mold (washable)
- 2:1 or 4:1 Input 4.5 to 75 VDC
- 3.3 to 15 VDC
- Remote On/Off
- IEC/UL 62368-1
- 18.9 × 12.8 × 8.7 mm



2 WATT

- 2:1/3:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- 11.9 × 11.3 × 8.0 mm



2 WATT

TES 2M

- 4 kVAC I/O-isolation
- ±10 % Input 5, 12, 24 VDC
- 5.0 to 15 VDC (unreg.)
- IEC 60601-1 (2 × MOOP)
- 24.0 × 13.7 × 9.3 mm



2 WATT

TIM 2SM

- Medical safety approval 2:1/3:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- IEC/UL 62368-1. IEC/ES 60601-1
- SMD-16 (24.3 × 14.4)



3 WATT

TRN 3SM

- 2:1/3:1 Input 4.5 to 75 VDC 3.3 to 24 VDC
- 11.9 × 11.3 × 8.0 mm



3 WATT

TDN 3WISM

- 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- Remote On/Off
- Compact design
- 13.2 × 9.1 × 10.2 mm



TMR 3WISM

TDR 3(WI)SM

⊕ TIM 3.5SM

- 4:1 Input 4.5 to 75 VDC
- 5.0 to 24 VDC
- Remote On/Off
- IEC/UL 62368-1
- 19.0 × 14.9 × 8.7 mm



- Epoxy over mold (washable)
- 2:1 or 4:1 Input 4.5 to 75 VDC
- 5.0 to 15 VDC

3 WATT

- Remote On/Off
- IEC/UL 62368-1
- 18.9 × 12.8 × 8.7 mm



- Medical safety approval (2 × MOPP)
- 2:1/3:1 Input 4.5 to 75 VDC
- 5.0 to 24 VDC

3.5 WATT

- IEC/UL 62368-1, IEC/ES 60601-1
- SMD-16 (24.3 × 14.4)



5 WATT

TDN 5WISM

- 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- Remote On/Off
- Compact design
- 13.2 × 9.1 × 10.2 mm



15 WATT

TON 15(WI)SM

- EN 55032 class A filter
- 2:1 or 4:1 Input. 9 to 75 VDC
- 3.3 to 15 VDC adjust.
- Remote On/Off
- IEC/UL 62368-1
- 27.9 × 23.9 × 8.5 mm



SIP DC/DC Converters

1 - 12 Watt

- Single and dual output models (standard)
- Operating temperature -40 to +85°C
- IT approval acc. to IEC/EN/UL 62368-1 (for regulated & high isolation convert-
- 1500 VDC I/O-isolation (standard)

1 WATT

Unregulated

5.0 to 15 VDC

TBA 1E

1 WATT

- Unregulated
- Cost optimized design
- ±10% Input 5 VDC
- 5 VDC output (single)
- 19.5 × 6 × 10 mm



TEA 1E

1 WATT

- Unregulated
- ±10% Input 5 to 24 VDC
- 5.0 to 15 VDC
- 19.5 × 6.1 × 10.2 mm



TMA

TME

■ 19.5 × 6 × 10 mm

1 WATT

Unregulated

Compact design

■ 11.7 × 6 × 10 mm

Short circuit protection

±10% Input 5 to 24 VDC



TBA 1

1 WATT

Unregulated

- Compact and cost optimized design
- ±10% Input 5 VDC
- 5 VDC output (single)
- 11.7 × 6 × 10.2 mm



TEA 1

1 WATT

- Unregulated
- Compact design
- ±10% Input 3.3 to 24 VDC
- 3.3 to 15 VDC (single only)
- 11.5 × 6.1 × 10.2 mm



TEA 1HI

1 WATT

3000 VDC I/O-isolation

Short circuit protection

±10% Input 3.3 to 24 VDC

3.3 to 15 VDC (single only)

- ±10 % Input 5 to 24 VDC
- 5.0 to 15 VDC

Unregulated

■ 19.5 × 6.1 × 10.2 mm



TMV-HI

TMV

1 WATT

- Unregulated
- Short circuit protection 3000 VDC I/O-isolation
- ±10% Input 5 to 24 VDC
- 5.0 to 15 VDC
- 19.5 × 6 × 10 mm



TMV-EN

TBA 1HI

1 WATT

- Unregulated
- 4000 VDC I/O-isolation
- Cost optimized design
- ±10% Input 5 VDC
- 5 VDC output (single) ■ 19.5 × 6 × 10 mm

TRI 1 NEW

1 WATT

Unregulated

- 5200 VDC I/O-isolation
- ±10% Input 5 to 24 VDC 3.3 to 15 VDC

■ 19.5 × 7.5 × 10.2 mm

1 WATT

- Unregulated
- 3000 VDC reinforced I/O-isolation
- ±10 %Input 5 to 12 VDC
- 5.0 to 15 VDC
- 22.0 × 7.5 × 12.5 mm



1 WATT

- Unregulated 3000 VAC I/O-isolation rated for 480 VACrms working voltage (reinforced)
- 8000 VDC peak isolation (1s)
- ±10 % Input 5 to 24 VDC
- 5.0 to 15 VDC
- 21 × 12.5 × 7.5 mm



- TRV 1
- Semi regulation (load)
- 3000 VDC I/O-isolation
- ±10% Input 5 to 24 VDC
- 5.0 to 15 VDC
- 19.5 × 6.1 × 10.2 mm



1 WATT

⊕ TRV 1M

- Medical safety approval (2 × MOPP)
- 5000 VAC I/O-isolation (reinforced)
- ±10% Input 5 to 24 VDC
- 3.3 to 15 VDC

Semi regulation

■ 19.6 × 9.8 × 12.5 mm



1 WATT

- Regulated
- 2:1/3:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- 11.9 × 7.7 × 11.0 mm



TRN 1

1 WATT

- Regulated
- 2:1 Input 4.5 to 75 VDC
- 5.0 to 24 VDC
- 17.0 × 7.6 × 11.0 mm



TMR 1 2 WATT

TMU₂

- **NEW** under development
- Unregulated Short circuit protection
- 1500 VDC I/O-isolation
- ±10% Input 5 to 24 VDC
- 5 to 24 VDC output
- 11.3 × 7.6 × 10.4 mm



TMH

2 WATT

TMV 2HI

- Unregulated
- 5200 VDC I/O-isolation
- ±10% Input 5 to 24 VDC
- 3.3 to 15 VDC
- 19.5 × 7.1 × 10.2 mm



2 WATT

- Unregulated
- Short circuit protection
- 1500 VDC I/O-isolation
- ±10% Input 5 to 24 VDC
- 5.0 to 15 VDC
- 19.5 × 7.6 × 10.2 mm



TBA 2

2 WATT

- Unregulated
- ±10% Input 5 to 24 VDC
- 5.0 to 15 VDC
- 19.5 × 7.5 × 10.2 mm



2 WATT

TEC 2(WI)

- Regulated
- 2:1 or 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- Remote On/Off
- 21.8 × 9.1 × 11.2 mm



TRV 2M **NEW**

2 WATT

- Regulated
- 2:1 Input 4.5 to 75 VDC
- 3.3 to 12 VDC
- Remote On/Off
- 21.8 × 9.2 × 11.1 mm



TMR 2

- 2 WATT Regulated
- 4:1 Input 4.5 to 75 VDC
- 3.3 to 15 VDC
- Remote On/Off
- 21.8 × 9.3 × 11.2 mm



TMR 2WIN 2 WATT

- Semi regulation
- Medical safety approval (2 × MOPP)
- 5000 VAC I/O-isolation (reinforced)
- ±10% Input 5 to 24 VDC
- 3.3 to 15 VDC
- 19.6 × 9.8 × 12.5 mm



TEC 3(WI)

3 WATT

- Unregulated
- Short circuit protection
- 1500 VDC I/O-isolation
- ±10% Input 5 to 24 VDC
- 5.0 to 15 VDC ■ 11.5 × 8.6 × 10.2 mm

2:1 or 4:1 Input 4.5 to 75 VDC

TMU 3 **NEW**

Regulated

3 WATT

- 2:1/3:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- 11.9 × 7.7 × 11.0 mm



TRN 3

3 WATT

- Regulated
- 2:1 or 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC Remote On/Off
- 21.8 × 9.1 × 11.2 mm



TVN₃

3 WATT

Regulated

3.3 to 15 VDC

Remote On/Off

21.8 × 9.2 ×811.2 mm

TMR 3(WI)

3 WATT

- Regulated
- 3000 VDC I/O-isolation
- 2:1 Input 4.5 to 75 VDC
- 3.3 to 15 VDC
- Remote On/Off 21.8 × 9.2 × 11.2 mm



TMR 4(WI)

TMR 3HI

3 WATT

- Ultra low ripple & noise 2:1/3:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- Remote On/Off
- 21.8 × 9.6 × 11.2 mm



TMR 6(WI)

■ TMR 3WIR

- 2:1 or 4:1 Input 9 to 75 VDC
- 5 to 24 VDC

Regulated

4 WATT

- Remote On/Off
- 21.8 × 9.3 × 11.2 mm



6 WATT

Regulated 2:1 or 4:1 Input 4.5 to 75 VDC

- 3.3 to 24 VDC
- Remote On/Off
- 21.8 × 9.1 × 11.2 mm



3 WATT

- Railway approval
- Regulated
- 3000 VDC I/O-isolation 4:1 Input 9 to 160 VDC
- 3.3 to 24 VDC
- 21.8 × 9.6 × 11.2 mm



■ TMR 6WIR

9 WATT

TMR 9(WI) 12 WATT

TMR 12WI NEW

- Railway approval
- Regulated
- 3000 VDC I/O-isolation
- 4:1 Input 9 to 160 VDC
- 3.3 to 24 VDC
- 21.8 × 9.6 × 11.2 mm



- Regulated
- 2:1or 4:1 Input 9 to 75 VDC
- 3.3 to 24 VDC
- Remote On/Off
- 21.8 × 9.1 × 11.2 mm



- Regulated
- 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- Remote On/Off
- 22 × 9.6 × 12 mm



High Performance DC/DC Converters

1 - 80 Watt

- Fully regulated outputs
- Single, dual (and triple) output models
- 1500 VDC I/O-isolation (standard)
- IT approval acc. to IEC/EN/UL 62368-1
- Operating temperature -40 to +85°C
- Opt. heat-sink for most >10 Watt models
- Remote On/Off control

1 WATT

Unregulated

- Short circuit protection
- 1500 VDC I/O-isolation
- ±10% Input 5 to 24 VDC
- 5 to 15 VDC output
- 12.7 × 10.2 × 8.0 mm

TDU 1 **NEW**

1 WATT

- 3.3 to 24 VDC
- 13.2 × 9.1 × 10.2 mm

4:1 Input 4.5 to 75 VDC



TDN 1WI

2 WATT

- Compact design
- 2:1 Input 4.5 to 75 VDC
- 3.3 to 15 VDC ■ 14.0 × 14.0 × 8.0 mm



THI 2M

TDL 2

2 WATT

TDR 2(WI)

- Epoxy over-mold
- 2:1 or 4:1 Input 4.5 to 75 VDC
- 5.0 to 15 VDC
- 18.9 × 12.8 × 8.7 mm



2 WATT

- 2:1 Input 4.5 to 75 VDC
- 3.3 to 15 VDC
- EN 55032 class A filter
- DIP-16 (23.8 × 13.7)



TEL 2 2 WATT

- Unregulated
- 2 × MOOP
- ±10 % Input 5 to 24 VDC
- 5.0 to 15 VDC
- DIP-16 (23.8 × 13.7)



2 WATT

• TIM 2

- Medical safety approval
- 2:1/3:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- DIP-16 (24.3 × 14.4)



3 WATT

- Compact design
- 2:1 Input 4.5 to 75 VDC
- 3.3 to 15 VDC
- 14.0 × 14.0 × 8.0 mm

TDL 3 3 WATT

- Ultra compact design
- 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- 13.2 × 9.1 × 10.2 mm



TDN 3WI

3 WATT

Epoxy over-mold

■ 18.9 × 12.8 × 8.7 mm

■ 5.0 to 15 VDC

2:1 or 4:1 Input 4.5 to 75 VDC

TDR 3(WI)

3 WATT

- 4:1 Input 9 to 75 VDC 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-16 (23.8 × 13.7)



THL 3WI

3 WATT

TEM 3N

- Cost down redesign
- ±10% Input 5 to 24 VDC
- 5.0 to 15 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)



TRI 3

3 WATT

TEN 3(WI)N

3 WATT

■ TEN 3WIRH

- 3.3 to 24 VDC
- Reinforced Isolation
- DIP-24 (32 × 20.3)

Railway approval



3.5 WATT

5000 VAC I/O-isolation rated for 1000 Vrms working voltage

- 2:1 Input 4.5 to 75 VDC
- 5 to 24 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)



- Cost down redesign
- 2:1 or 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)



3 WATT THR 3WI

- 3000 VAC I/O-isolation (reinforced)
- 4:1 Input 9 to 160 VDC
- 5 to 15 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)



3 WATT

- Regulated
- ±10% Input 5 to 24 VDC
- 5.0 to 15 VDC
- 2×MOOP
- EN 55032 class A filter
- DIP-24 (32 × 20.3)



THI 3

3 WATT

- Regulated
- 4:1 Input 9 to 160 VDC
- 5.0 to 12 VDC
- 2 × MOOP
- EN 55032 class A filter
- DIP-24 (32 × 20.3)



THP 3

3 WATT

⊕ THM 3(WI)

- Medical safety approval
- 2:1 or 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)



3.5 WATT

⊕ TIM 3.5

- Medical safety approval
- 2:1/3:1 Input 4.5 to 75 VDC
- 5.0 to 24 VDC
- DIP-16 (24.3 × 14.4)



TEL 5

5 WATT

TDN 5WI

- Highest power density
- 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- 13.2 × 9.1 × 10.2 mm



5 WATT

TVN 5WI

- Ultra low ripple & noise
- 4:1 Input 4.5 to 75 VDC
- 3.3 to 48 VDC
- EN 55032 class B filter
- Case pin
- DIP-24 (32 × 20.3)



5 WATT

- Cost optimized
- 2:1 Input 9 to 36 VDC
- 3.3 to 15 VDC
- DIP-24 (32 × 20.3)



TEL 6

NEW

6 WATT

TMDC 06

- 4:1 Input 9 to 75 VDC
- 5.1 to 48 VDC
- EN 55032 class A filter
- Chassis/DIN-rail
- Screw terminal connection
- 53 × 34 × 26.5 mm



TEL 6WI

NEW

6 WATT

TMDC 06H

- 2:1 Input 80 to 160 VDC
- 5.1 to 48 VDC
- EN 55032 class A filter
- Chassis/DIN-rail
- Screw terminal connection
- 53 × 34 × 26.5 mm



6 WATT

- Cost efficient design
- 2:1 Input 9 to 75 VDC
- 5 to 24 VDC
- EN 55032 class A filter
- DIP-16 (24.3 × 14.4)



6 WATT

Cost efficient design

- 4:1 Input 9 to 75 VDC
- 5 to 24 VDC
- EN 55032 class A filter
- DIP-16 (24.3 × 14.4)



6 WATT

TEN 6(WI)N

- 2:1 or 4:1 Input 9 to 75 VDC
- 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)



6 WATT

3000 VDC I/O-isolation

- 4:1 Input 9 to 75 VDC
- 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)



⊕ THM 6(WI)

TEN 6WIN-HI

6 WATT

- Railway approval
- 4:1 Input 36 to 160 VDC
- 3.3 to 24 VDC
- Reinforced Isolation
- DIP-24 (32 × 20.3)



■ TEN 6WIRH

6 WATT

TRI 6

6 WATT

- Medical safety approval
- 2:1 or 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)



TEN 8

6 WATT

- Medical safety approval
- 2:1 Input 9 to 75 VDC
- 3.3 to 15 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)



■ TEN 8WI

TIM 6 **NEW**

8 WATT

5.0 to 24 VDC

TEL 8(WI)

2:1 or 4:1 Input 9 to 75 VDC

5000 VAC I/O-isolation rated for

1000 Vrms working voltage

2:1 Input 9.0 to 75 VDC

■ EN 55032 class A filter

■ DIP-24 (32 × 20.3)

- 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-16 (24.1 × 14)



8 WATT

- 2:1 Input 9 to 75 VDC
- 3.3 to 15 VDC
- EN 55032 class A filter ■ DIP-24 (32 × 20.3)



8 WATT

Railway approval

- 4:1 Input 9 to 160 VDC
- 3.3 to 15 VDC
- Increased EMC immunity
- DIP-24 (32 × 20.3)



TEL 10

TEL 10WI

THD 10(WI)N

- Highest power density of 3.83 W/cm³
- 2:1 Input 9 to 75 VDC
- 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-16 (23.8 × 13.3)



- Highest power density of 3.83 W/cm3
- 4:1 Input 9 to 75 VDC
- 3.3 to 24 VDC

10 WATT

- EN 55032 class A filter
- DIP-16 (23.8 × 13.3)



- 2:1 or 4:1 Input 9 to 75 VDC
- 3.3 to 24 VDC

10 WATT

- EN 55032 class A filter
- DIP-24 (32 × 20.3)



10 WATT

■ THN 10WIR

10 WATT

■ TEN 10WIRH

10 WATT

TRI 10

- Railway approval
- EN 55032 class A filter
- 4:1 Input 9 to 160 VDC
- 3.3 to 24 VDC adjust.
- Increased EMC immunity
- 1"×1"



- Railway approval
- 4:1 Input 36 to 160 VDC
- 3.3 to 24 VDC
- Reinforced Isolation
- DIP-24 (32 × 20.3)



- 5000 VAC I/O-isolation rated for 1000 Vrms working voltage
- 2:1 Input 9 to 75 VDC
- 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)



10 WATT

THR 10WI

- 3000 VAC I/O-isolation (reinforced)
- 4:1 Input 9 to 160 VDC
- 5 to 24 VDC
- EN 55032
- class A filter
- 2"×1"



10 WATT

⊕ THM 10(WI)

- Medical safety approval
- 2:1 or 4:1 Input 4.5 to 75 VDC
- 3.3 to 24 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)



TEL 12

10 WATT

TMDC 10

- Chassis/DIN-rail
- Screw terminal connection
- 4:1 Input 9 to 75 VDC
- 5.1 to 48 VDC
- FN 55032 class A filter
- 79 × 34 × 22 mm



10 WATT

TMDC 10H

- Chassis/DIN-rail
- Screw terminal connection
- 2:1 Input 80 to 160 VDC
- 5.1 to 48 VDC
- EN 55032 class A filter
- 79×34×22 mm



12 WATT

- Highest power density of 3.61 W/cm³
- 2:1 Input 9 to 75 VDC
- 5.1 to 24 VDC
- EN 55032 class A filter
- DIP-16 (23.8 × 13.3)



12 WATT

TEL 12WI

- Highest power density of 3.61 W/cm³
- 4:1 Input 9 to 75 VDC
- 5.1 to 24 VDC
- EN 55032 class A filter
- DIP-16 (23.8 × 13.3)

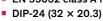


THN 15N

12 WATT

THD 12(WI)

- 2:1 or 4:1 Input 9 to 75 VDC
- 3.3 to 15 VDC
- EN 55032 class A filter





15 WATT

- 2:1 or 4:1 Input 9 to 75 VDC 3.3 to 15 VDC
- EN 55032 class A filter
- DIP-24 (32 × 20.3)



THD 15(WI)N

15 WATT

- 2:1 Input 9 to 75 VDC 3.3 to 48 VDC adjust.
- EN 55032 class A filter
- 1" × 1"
- Low no-load power consumption



15 WATT

THL 15WI

- cost efficient design
- 4:1 Input 9 to 75 VDC 3.3 to 24 VDC adjust.
- EN 55032 class A filter



15 WATT

- 4:1 Input 9 to 75 VDC
- 3.3 to 48 VDC adjust.
- 1"×1"
- Remote On/Off



THN 15WI **15 WATT**

TEL 15N

- Highest power density 4.51 W/cm³ 2:1 Input 9 to 75 VDC
- 5 to 24 VDC
- EN 55032 class A filter
- DIP-16 (23.8 × 13.7)



15 WATT

TEL 15N-HS

NEW High temperature range, up to 70°C without derating

- 2:1 Input 9 to 75 VDC
- 5 to 24 VDC
- EN 55032 class A filter
- DIP-16 (24.4 × 14.3 × 24.4)



15 WATT

TEL 15WIN

- Highest power density of 4.51 W/cm³ 4:1 Input 9 to 75 VDC
- 5 to 24 VDC
- EN 55032 class A filter
- DIP-16 (23.8 × 13.7)



NEW

15 WATT

TEL 15WIN-HS

- High temperature range, up to 70°C without derating
- 4:1 Input 9 to 75 VDC
- 5 to 24 VDC
- EN 55032 class A filter
- DIP-16 (24.4 × 14.3 × 24.4)



TRI 15

■ THN 15WIR

⊕ THM 15(WI)

- 4200 VAC I/O-isolation rated for 1000 Vrms working voltage
- 2:1 Input 9 to 75 VDC
- 5.1 to 24 VDC
- EN 55032 class A filter
- 2"×1"

20 WATT

to 75 VDC



- THN 20(WI)
- 2:1 or 4:1 Input 9
- 3.3 to 48 VDC adjust.
- EN 55032 class A filter
- 1"×1"



20 WATT

■ 1"×1"

15 WATT

Railway approval

EN 55032 class A filter

4:1 Input 9 to 160 VDC

Increased EMC immunity

3.3 to 48 VDC adjust.

TEN 20WIN

- 4:1 Input 9 to 75 VDC
- 3.3 to 15 VDC adjust.
- Remote On/Off
- 9" x 1"



■ THN 20WIR

20 WATT

15 WATT

5.0 to 24 VDC

class A filter

■ EN 55032

■ 1.6"×1"

Medical safety approval

2:1 or 4:1 Input 9 to 75 VDC

TRI 20

- 4200 VAC I/O-isolation rated for 1000 Vrms working voltage
- 2:1 Input 9 to 75 VDC
- 5.1 to 24 VDC
- EN 55032
- class A filter
- 2"×1"



■ TEN 20WIR

20 WATT

THR 20WI

3000 VAC I/O-isolation (reinforced)

- 4:1 Input 9 to 160 VDC
- 5 to 24 VDC
- EN 55032 class A filter
- 2" x 1"

Railway approval

20 WATT

- 4:1 Input 9 to 160 VDC
- 3.3 to 24 VDC adjust.
- Increased EMC immunity
- 1"×1"



20 WATT

- Railway approval
- EN 55032 class A filter
- 4:1 Input 9 to 160 VDC
- 3.3 to 15 VDC adjust.
- Increased EMC immunity
- 2"×1"



TMDC 20

20 WATT

■ TEN 20WIRH

- Railway approval
- 4:1 Input 36 to 160 VDC
- 5.1 to 24 VDC
- Reinforced Isolation
- 1.6"×1"



TMDC 20H

20 WATT

- 2:1 or 4:1 Input 9 to 75 VDC
- 5.0 to 24 VDC
- EN 55032 class A filter

20 WATT

■ 1.6"×1"



■ TEQ 20WIR

◆ THM 20(WI)

20 WATT

- Chassis/DIN-rail Screw terminal
- connection
- 4:1 Input 9 to 75 VDC
- 5.1 to 48 VDC

25 WATT

■ 1"×1"

EN 55032 class A filter

2:1 or 4:1 Input 9 to 75 VDC

3.3 to 15 VDC adjust.

Remote On/Off

■ 3.8"×2.1"× 0.9"

THL 25(WI)

20 WATT

Chassis/DIN-rail

- Screw terminal connection
- 2:1 Input 80 to 160 VDC
- 5.1 to 48 VDC
- EN 55032 class A filter
- 3.8"× 2.1"×0.9"



- 2:1 Input 9 to 75 VDC
- 3.3 to 15 VDC adjust.
- Remote On/Off
- 2" x 1"



Railway approval

- Increased EMC immunity
- Temp. range -40 to 93°C

EN 55032 class B filter

4:1 Input 9 to 160 VDC

5.0 to 24 VDC adjust.

- 4.1" × 2.3" × 1"

30 WATT





- With triple output models
- 4:1 Input 9 to 75 VDC
- 3.3 to 15 VDC adjust. 9" x 1"



■ THN 30WIR

30 WATT

2:1 or 4:1 Input 9 to 75 VDC

- 3.3 to 24 VDC adjust.
- Remote On/Off
- 1" x 1"



THN 30(WI)

30 WATT

- High power density
- 4:1 Input 9 to 75 VDC
- 3.3 to 24 VDC adjust. ■ EN 55032 class A filter
- 1"×1"



THL 30WI

NEW

30 WATT

Railway approval

- 4:1 Input 9 to 160 VDC 3.3 to 24 VDC adjust.
- Increased EMC immunity
- 1"×1"



30 WATT

- Medical safety approval
- 2:1 or 4:1 Input 9 to 75 VDC
- 5.0 to 24 VDC
- EN 55032 class A filter
- 2" × 1"



⊕ THM 30(WI)

THL 40WI

- 4:1 Input 9 to 75 VDC
- 5 to 24 VDC adjust.
- Highest power density
- Remote On/Off and Trim
- 1"×1"



40 WATT

TEN 40(WI)E

40 WATT

THR 40WI

- **NEW** under development
 - 2:1 or 4:1Input 9 to 75 VDC
 - 3.3 to 24 VDC adjust.
 - Maximized quality in a cost efficient design
 - Remote On/Off
 - 2" × 1"

40 WATT



TEN 40WIRH

- 3000 VAC I/O-isolation (reinforced)
- 4:1 Input 36 to 160 VDC
- 5 to 24 VDC
- 2" x 1"



■ TEQ 40WIR

40 WATT

Railway approval

Increased EMC

immunity

4:1 Input 9 to 160 VDC

3.3 to 48 VDC adjust.

■ TEN 40WIR

- - - Railway approval 4:1 Input 36 to 160 VDC
 - 5.1 to 24 VDC
 - Reinforced Isolation
 - 2" x 1"



TMDC 40H

40 WATT

- Railway approval
- EN 55032 class B filter
- 4:1 Input 9.5 to 160 VDC
- 5.0 to 24 VDC adjust.
- Increased EMC immunity
- 4.1" × 2.3" × 1"

■ 2"×1" 40 WATT

- **TMDC 40**
- Screw terminal connection
- 4:1 Input 9 to 75 VDC
- 5.1 to 48 VDC

Chassis/DIN-rail

- EN 55032 class A filter
- 4.4" × 2.5" × 1"



40 WATT

- Chassis/DIN-rail
- Screw terminal connection
- 2:1 Input 80 to 160 VDC
- 5.1 to 48 VDC
- EN 55032 class A filter
- 4.4" × 2.5" × 1"



50 WATT

TEN 50(WI)

- 2:1 or 4:1 Input 9 to 75 VDC
- 3.3 to 24 VDC adjust.
- Over temperature protection
- Remote On/Off
- 2" x 1"



60 WATT

TEN 60(WI)N

- 2:1 or 4:1 Input 9 to 75 VDC
- 5.0 to 48 VDC adjust.
- EN 55032 class A filter
- 2"×1"



60 WATT

- Railway approval
- 4:1 Input 9 to 160 VDC
- 5 to 48 VDC adjust.
- Increased EMC immunity
- 2"×1"



■ TEN 60WIR

60 WATT

THM 60WI **NEW**

- Medical safety approval
- 2 × MOPP
- 4:1 Input 9 to 75 VDC
- 5.0 to 24 VDC adjust.
- 2.3"×1.45"×0.5"



60 WATT

- Chassis/DIN-rail
- Screw terminal connection
- 4:1 Input 9 to 75 VDC
- 5.1 to 48 VDC
- EN 55032 class A filter
- 4.4"×2.7"×1.5"



TMDC 60 60 WATT

- Chassis/DIN-rail
- Screw terminal connection 2:1 Input 80 to 160 VDC
- 5.1 to 48 VDC
- EN 55032 class A filter
- 4.4" × 2.7" × 1.5"



80 WATT TMDC 60H

TEN 80WI

- **NEW** under development
- 4:1 Input 9 to 75 VDC
- 5 to 48 VDC adjust.
- Highest power density Remote On/Off and Trim
- 2" x 1"



40 - 300 Watt

High Power DC/DC Converters / RIA12 Surge Filters

- Excellent thermal management
- EN 55032 class A (chassis models)
- Increased EMC immunity
- Entire protective structure
- Control functions
- Wide selection of options

0-300 WATT

- RIA 12, NF F01-510 Surge Filter Clamps overvoltage transients (up to 385 VDC) at 168 VDC
- Wide input 43 to 160 VDC
- Brownout voltage 36 VDC min.
- DIP-24 or 1.6" × 1"

TFI

40 WATT

- Railway approval
- Ultra wide 12:1 Input 9 to 160 VDC
- 5 to 53 VDC adjust.
- **PCB** mount
 - $2.3" \times 1.45" \times 0.5"$



■ TEP 40UIR

60 WATT

- Railway approval
- Ultra wide 12:1 Input 9 to 160 VDC
- 5 to 53 VDC
- PCB mount
- 2.3" × 1.45" × 0.5"



■ TEP 60UIR

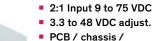
■ TEP 75WI

100 WATT

TEP 100 100 WATT

■ TEP 100UIR

- Railway approval
- 4:1 Input 9 to 160 VDC
- 5.0 to 48 VDC adjust.
- PCB / chassis / DIN-rail
- 2.4"×2.3"×0.5"



2.4" × 2.3" × 0.5"

DIN-rail



- Ultra wide 12:1 Input 9 to 160 VDC
- 5 to 53 VDC
- PCB mount
- 2.3" × 1.45" × 0.5"



100 WATT

Railway approval

■ PCB/chassis/

■ 2.4" × 2.3" × 0.5"

DIN-rail

4:1 Input 9.0 to 160 VDC

5.0 to 48 VDC adust.

■ TEP 100WIR

- Railway approval

100 WATT

- 85°C full load operation
- 4:1 Input 10.0 to 160 VDC
- 12 to 48 VDC adust.
- UL 508 approval
- 3"×4"×3.5"



■ TEQ 100WIR

150 WATT

□ TEP 150WI

- CV / CC for battery charging
- Railway approval
- 4:1 Input 9 to 160 VDC
- 12 to 48 VDC adust.
- FN 55032
- class B (opt.)
- 98 × 65 × 38 mm



150 WATT

■ TEP 150UIR

- **NEW**
- Railway approval Ultra wide 10:1 Input 16 to 160 VDC
- 5 to 53 VDC
- PCB mount
- 2.4"×2.3"×0.5"



160 WATT

TEP 160

- 2:1 Input 16.5 to 75 VDC
- 12 to 53 VDC adust.
- PCB/chassis/DIN-rail
- Soft start
- 2.4" × 2.3" × 0.5"



160 WATT

■ TEP 160WIR

- Railway approval
- 4:1 Input 9.0 to 160 VDC
- 12 to 53 VDC adust.
- PCB/chassis/ DIN-rail
- 2.4" × 2.3" × 0.5"



■ TEP 200UIR

160 WATT

■ TEQ 160WIR

- Railway approval
- 75°C full load operation
- 4:1 Input 19 to 160 VDC 12 to 48 VDC adust.
- UL 508 approval
- 3"×4"×3.5"



200 WATT

- Railway approval
- 4:1 Input 9.0 to 160 VDC
- 12 to 53 VDC adust.
- Chassis mount / PCB
- DIN-rail mount opt.
- 2.4" × 2.3" × 0.5"



■ TEP 200WIR

200 WATT

- Railway approval
- Ultra wide 10:1 Input 16 to 160 VDC 5 to 53 VDC
- PCB mount
- 2.4" × 2.3" × 0.5"



200 WATT

■ TEQ 200WIR

- Railway approval
- 70°C full load operation
- 4:1 Input 19 to 160 VDC
- 12 to 48 VDC adust. UL 508 approval
- 3"×4"×3.5"



300 WATT

■ TEQ 300WIR

- CV / CC for battery charging
- Railway approval
- 4:1 Input 18 to 160 VDC
- 12 to 48 VDC adust.
- UL 508 approval
- Load share function
- 6" × 4" × 1.5"



Industrial DIN-Rail Mount DC/DC Converters

20 - 300 Watt

- DC/DC modules designed for DIN-Rail mount
- DC/DC modules with optional mounting kit for DIN-Rail mount

24-60 WATT

- Slim plastic casing UL 508 approval
- 4:1 Input 9.5 to 75 VDC
- 5.0 to 24 VDC
- EN 55032 class B filter
- 75 × 100 × 27/45 mm

Mounting kit for Modules TMDC 20 TMDC 40



20-300 WATT

Mounting kit for all **TEQ Series models** (not on picture: TEQ 20WIR, **TEQ 40WIR** and TEQ 300WIR)



TEQ Series

TCL-DC

TMDC Series 20-60 WATT

TMDC 60

Industrial High Power Converters

150 Watt - 40 kW / 45 kVA

- DC/DC & AC/DC converters up to 40 kW
- DC/AC inverters up to 45 kVA
- AC/AC static switches up to 10 kVA
- Eurocassette, 19" Plug-in Modules, wall/chassis mount or DIN-Rail mount
- IEC/EN/UL 62368-1 approvals
- Modular options and customised solutions

150-5000 WATT

19" plug-in /chassis / DIN

- 5 to 400 VDC
- Input 10 to 800 VDC or AC input
- Entire protection circuit
- Individual power solutions



TSC

■ 19" sub rack

5-40 kW

- 5 to 800 VDC
- Input 40 to 800 VDC or AC input
- Entire protection circuit
- Individual power solutions



TSC 19

200 VA-45 kVA

- AC output with true sine wave
- Single and three phase
- 10 to 800 VDC input models
- AC input for frequency conversion
- Configurable for individual power solutions



TSD

Encapsulated AC/DC Power Modules

3 - 100 Watt

- Universal input (85-264 VAC)
- EN 55032 class B filter

EN 60335-1 (household)

■ ErP ready

- IEC/EN/UL 62368-1 approvals
- Start-up temperature -40°C for several series

3 WATT

PCB mount

3.3 to 24 VDC

■ 1"×1"×0.6"

- ↑ TMPS 03
- PCB mount

4 WATT

- 3.3 to 24 VDC
- Single and dual
- Compact design



TMLM 04

5 WATT

★ TMPS 05

- PCB mount
- EN 60335-1 (household)
- 3.3 to 48 VDC
- 1"×1"×0.6"



5 WATT

↑ TMPW 5

- Extended input 90 to 305 VAC EN 60335-1 (household)
- PCB mount
- 3.3 to 24 VDC
- 1.45"×1.08"×0.7"



5 WATT

↑ TMPW 5-J/-T

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- Chassis mount
- 3.3 to 24 VDC
- 2.17" × 1.08" × 0.91'



10 WATT

- PCB mount
- Inc. EMC immunity
- EN 60335-1 (household)
- 3.3 to 48 VDC
- Ultra-compact design 1.5" × 1" × 0.6"



↑ TMPS 10

10 WATT

PCB mount

5 to 24 VDC

■ 1.45" × 1.08" × 0.8"

★ TMPW 10

10 WATT

★ TMPW 10-J/-T

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- Chassis mount
- 5 to 24 VDC
- 2.17" × 1.08" × 0.91"



↑ TMPS 15

NEW

15 WATT

TMPW 15

NEW under development

- Extended input 90 to 305 VAC
- EN 60335-1 (house
- PCB mount
- 5 to 48 VDC ■ 1.8"×1.1"



15 WATT

TMPW 15-J/-T

NEW under development

Extended input 90 to 305 VAC

Extended input 90 to 305 VAC

EN 60335-1 (household)

- EN 60335-1 (ho
- Chassis mount 5 to 48 VDC
- ??" x ??"



15 WATT

- PCB mount
- Inc. EMC immunity EN 60335-1 (household)
- 3.3 to 48 VDC
- 2.06" × 1.07" × 0.93"



15 WATT

♠ ⊕ TPP 15-J

- Medical safety approval
- Chassis mount with JST connectors
- 3.3 to 48 VDC
- EN 60335-1
- 2.82"×1.14"×0.82"



↑ TPP 15-D

- Medical safety approval
- PCB mount
- 3.3 to 48 VDC
- EN 60335-1
- 1.65" × 1.14" × 0.85"



4-24 WATT

■ EN 60335-1

(household)

3.3 to 24 VDC

Mount in flush boxes

Fire safety for furniture

☆ ♥♥ TIW

25 WATT

↑ TMPW 25

Extended input 90 to 305 VAC IP67 casing w. flying leads

TMF

- EN 60335-1 (household)
- PCB mount
- 5.1 to 24 VDC
- 2.07" × 1.08" × 0.9"



25 WATT

↑ TMPW 25-J/-T

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- Chassis mount
- 5.1 to 24 VDC
- 3.48" × 1.08" × 0.95"



5-30 WATT

- Medical safety approval
- PCB mount
- Fully encapsulated
- Highest power density 5 to 24 VDC
- Single output



30 WATT

↑ TPP 30-J

- Medical safety approval
- Chassis mount with JST connectors
- 3.3 to 48 VDC
- EN 60335-1
- JST connection
- 3.95" × 1.5" × 1.0"



30 WATT

♠ ⊕ TPP 30-D

- Medical safety approval
- PCB mount, throughole
- 3.3 to 48 VDC
- EN 60335-1
- 2.89"×1.5"×1.0"



24-36 WATT

↑ TMW

- Medical safety approval IP68 casing w. flying leads
- Mount in flush boxes
- Fire safety for furniture
- EN 60335-1 (household)
- 5 to 24 VDC



40 WATT

TMPW 40

NEW under development

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- PCB mount
- 5 to 48 VDC
- 2.52" × 1.8" × 0.9"



TPP 40E-J

NEW

40 WATT

TMPW 40-J/-T **NEW** under development

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- Chassis mount
- 5 to 48 VDC
- 3.48" × 1.84" × 1.0"



40 WATT

- Medical safety approval
- 5.0 to 48 VDC
- Protection class II
- PCB mount
- 3.2" × 2.2" × 1.2"



TPP 40E-D

NEW

40 WATT

Medical safety approval

- 5.0 to 48 VDC (adj.)
- Protection class II
- IST connection
- 4.3"×2.2"×1.2"



☆ TMPW 50-J/-T

7-50 WATT

- PCB mount
- Compact design
- 3.3 to 48 VDC Safety class II



TMG

50 WATT

↑ TMPW 50

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- PCB mount
- 12 to 24 VDC
- 2.92" × 1.85" × 0.9"



50 WATT

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- Chassis mount
- 12 to 24 VDC ■ 3.81" × 1.85" × 1"



7-60 WATT

■ PCB mount

- Industr. EMC immunity
- 3.3 to 48 VDC
- Single, dual, triple



TMP

15-60 WATT

- Chassis mount
- Ind. EMC immunity 5.0 to 48 VDC
- Single, dual, triple UL 508 approval
- DIN-Rail clip



TMP-C

20-40 WATT

- PCR/chassis Single, dual, triple
- 3.3 to 24 VDC
- Protection class II for TML 40



TML

24-60 WATT

- PCB mount
- Fully encapsulated
- Low profile
- 5.0 to 48 VDC



TMM

24-60 WATT

- Chassis mount
- Fully encapsulated
- Low profile
- 5.0 to 48 VDC
- Single / dual output UL 508 approval
- DIN-Rail clip



TMM-C

60 WATT

NEW under development Extended input 90 to 305 VAC EN 60335-1 (household)

- PCB mount
- 12 to 48 VDC
- 2.92"×1.85"×0.9"



TMPW 60

TMPW 60-J/-T

NEW under development

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- Chassis mount
- 12 to 48 VDC
- 3.81"×1.85"×1"



65 WATT

- Medical safety approval
- 5.0 to 48 VDC
- Protection class II
- PCB mount
- 3.2"×2.2"×1.2"



⊕ TPP 65E-D

65 WATT

• TPP 65E-J **NEW**

- Medical safety approval
- 5.0 to 48 VDC (adj.)
- Protection class II
- JST connection
- 4.3"×2.2"×1.2"



80 WATT

TMPW 80

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- PCB mount
- 12 to 48 VDC
- 3.2" × 1.85" × 1.06"



80 WATT

TMPW 80-J/-T

NEW under development

- Extended input 90 to 305 VAC
- EN 60335-1 (household)
- Chassis mount
- 12 to 48 VDC
- 4.0" × 1.9" × 1.1"



100 WATT

- Chassis mount
- Active PFC
- 12 to 48 VDC
- 140×60×37 mm



TML 100C

Metal Enclosure and Open Frame Power Supplies

15 - 1000 Watt

- Excellent thermal management
- Universal input (85-264 VAC)
- EN 61000-3-2 compliant
- IEC/EN/UL 62368-1 approvals
- EN 55032 class B filter
- ErP ready

15-200 WATT

- Cost optimized design
- Fanless operation
- 3.3 to 48 VDC adjust.



TXM 18-960 WATT

- 3.3 to 48 VDC adjust.
- Single, dual, triple
- < 200 Watt fanless Active PFC > 0.95
- Screw terminal block



TXLN

15 WATT

↑ TPP 15A-J

- Medical safety approval
- Ultra compact
- 3.3 to 48 VDC
- EN 60335-1
- JST connection
- 2.6"×1"×0.73"



♠ ⊕ TPP 30A-J

15 WATT

♠ ⊕ TPP 15A-D

- Medical safety approval
- Ultra compact
- 3.3 to 48 VDC EN 60335-1
- PCB mount
- 1.5"×1"×0.82"



30 WATT

- Ultra compact
- Peak power up to 40 Watt
- 3.3 to 53 VDC
- JST connection
- 3.34" × 1.36" × 0.8"



TPI 30A-J

30 WATT

- Medical safety approval
- Ultra compact
- 3.3 to 48 VDC
- EN 60335-1
- JST connection
- 3.34" × 1.36" × 0.88



TPP 40

30 WATT

♠ ⊕ TPP 30A-D

- Medical safety approval Ultra compact
- 3.3 to 48 VDC
- EN 60335-1 PCB mount
- 2.74" × 1.36" × 0.95"



TPI 50A-J

40 WATT

- Medical safety approval
- 5.0 to 48 VDC adjust.
- Protection class I & II
- JST connection 3" × 2" × 1.05"



TXH 060

TPP 40A **40 WATT**

- Medical safety approval
- 5.0 to 24 VDC adjust.
- Single, dual, triple
- Protection class I & II
- 3.5" × 2.4" × 1.3" mm



50 WATT

- Ultra compact
- Peak power up to 70 Watt
- 5.0 to 48 VDC Protection class II
- IST connection ■ 3" × 1.5" × 1.2"



60 WATT

- 5.0 to 48 VDC (adj.)
- 3" × 1.7"
- Screw terminals



65 WATT

- Ultra compact
- Peak power up to 90 Watt
- 5.0 to 53 VDC
- Protection class I&II
- JST connection
- 3"×2"×1.1"



TPI 65A-J

- TPP 65A

• TPP 65

TOP 100

- Medical safety approval
- 5.0 to 48 VDC (adj.)
- Protection class I&II
- JST connection
- 3"×2"×1.1"



TOP 100C

- Medical safety approval
- 5.0 to 24 VDC (adj.)
- Single, dual, triple

65 WATT

- Protection class I&II
- 3.5" × 2.5" × 1.3"
- Opt.: DIN-rail, pin con.



TPI 100A

- 5.0 to 48 VDC (adj.)
- Protection class I&II
- Pin connection
- 4"×2"×1.2"

100 WATT



100 WATT

- 5.0 to 48 VDC (adj.)
- Protection class I&II
- Pin connection
- 4.5" × 2.5" × 1.5"



100 WATT

- 12 to 48 VDC (adj.)
- Protection class I&II
- 3"× 2"× 1.3"
- Opt.: Casing



TPI 125A-J

100 WATT

TPP 100A

- Medical safety approval
- 12 to 48 VDC (adj.)
- Protection class I&II
- JST connection
- 3"×2"×1.3"



100 WATT

- **TPP 100**
- Medical safety approval
- 12 to 48 VDC (adj.)
- Protection class I&II
- 3.6"×2.4"×1.5"
- Opt.: DIN-rail, pin con.



TPI 150A

125 WATT

- Ultra compact
- Peak power up to 150 Watt
- 5.0 to 48 VDC
- Protection class II
- JST connection
- 3"×2"×1.2"



130 WATT

TCI 130

NEW under development

- Unique conduction cooled design
- 12 to 48 VDC
- Protection class II
- OVC III
- JST connection
- 3"×2.35"×1.1"



TPP 150

150 WATT

- 12 to 48 VDC (adj.)
- Protection class II
- 4"×2"×1.3" (opt. casing)
- JST connection



150 WATT

- Medical safety approval
- 12 to 48 VDC (adj.)
- Protection class I&II
- 4" × 2" × 1.3"



TPP 150A

150 WATT

- Medical safety approval
- 12 to 48 VDC (adj.)
- Protection class I&II
- 4.6"×2.4"×1.9"
- Opt.: DIN-rail, pin con.



180 WATT

Ultra compact design

- Contr. & monitor



TPI 180A-M NEW

- 12 to 48 VDC (adj.)
- Protection class I&II
- signals
- 3"×2"×1.3"



180 WATT

- Ultra compact design
- 12 to 48 VDC (adj.)
- Protection class I&II
- Contr. & monitor signals
- 3.6"×2.44"×1.5"

TPI 180-M **NEW**



180 WATT

- Ultra compact design
- 12 to 48 VDC (adj.)
- Protection class I&II Contr. & monitor
- signals ■ 3"×2"×1.3"



TOP 200

⊕ TPP 180A-M

NEW

180 WATT

⊕ TPP 180-M **NEW**

- Medical safety approval
- Ultra compact design
- 12 to 48 VDC (adi.)
- Protection class I&II Contr. & monitor
- signals ■ 3.6" × 2.44" × 1.5"
- **200 WATT TOP 200C**
- 12 to 48 VDC
- Remote On/Off ■ 5.5" × 3.5" × 1.5"



120-480 WATT

- 12 to 48 VDC (adj.)
- Compact low profile Screw terminals



TCI 240

TXH

200 WATT

- 12 to 48 VDC Protection class I&II
- Remote On/Off
- 5"×3"×1.3"



Protection class I&II

240 WATT

- **NEW** under development
- Unique conduction cooled design 12 to 48 VDC

OVC III

- Protection class II
- JST connection 4.1" × 2.46" × 1.54"



250 WATT

- Medical safety approval
- Ultra compact design
- 12 to 48 VDC (adj.) Protection class I&II
- Contr. & monitor
- signals ■ 4"×2"



TPP 250A

NEW

NEW

250 WATT

• TPP 250A-FK

- Medical safety approval
- With Fan-Kit
- 12 to 48 VDC (adj.)
- Protection class I&II
- Contr. & monitor signals
- 4"×2"



300 WATT

NEW

- Ultra compact design
- 12 to 48 VDC (adj.)
- Protection class I&II
- Contr. & monitor signals
- 4.6" × 2.44" × 1.3"



TPI 300L-M

300 WATT

Ultra compact design

- 12 to 48 VDC (adj.)
- Protection class I&II
- Contr. & monitor signals
- 4.6"×2.4"×2.32"



TPP 450BA

TPI 300-M

300 WATT

TPP 300A-M NEW

- Medical safety approval
- Ultra compact design
- 12 to 48 VDC (adj.)
- Protection class I&II
- Contr. & monitor signals
- 4" × 2" × 1.3"



300 WATT

TPP 300-M NEW

- Medical safety approval
- Ultra compact design
- 12 to 48 VDC (adj.) Protection class I&II
- Contr. & monitor signals
- 4.6" × 2.4" × 2.32"

450 WATT

- Medical safety approval
- 12 to 53 VDC (adj.)
- Protection class I&II
- Contr. & monitor signals
- 5"×3"×1.6"
- 12 VDC auxiliary output for fa

450 WATT

TPP 450

- Medical safety approval
- 12 to 53 VDC (adj.)
- Protection class I&II
- Contr. & monitor signals
- 5.8" × 3.2" × 1.6"
- Fan

500 WATT

NEW under development

- 12 to 48 VDC
- Protection clas
- OVC III
- JST connection
- 5.1" × 3.26" × 2



TPP 600A-FK

TCI 500

500 WATT

TCI 500-U

NEW under development Unique conduction cooled design

- 12 to 48 VDC
- Protection clas
- OVC III
- JST connection
- 5.1" × 3.26" × 1



600 WATT

TPP 600A NEW

- Medical safety approval
- Ultra compact design
- 24 to 48 VDC (adj.)
- Protection class I&II
- Contr. & monitor signals
- 5"×3"×1.5"

600 WATT

- Medical safety approval With Fan-Kit
- 24 to 48 VDC (adj.)
- Protection class I&II
- Contr. & monitor signals
- 5"×3"×2.5"



700 WATT

- Compact design
- 12 to 48 VDC
- Protection class II
- IST connection
- 6.7" × 3.66" × 1.61

NEW under development

TPI 700

850 WATT

TPP 850A

- Medical safety approval
- Ultra compact design
- 24 to 48 VDC (adj.)
- Protection class I&II Contr. & monitor
- signals ■ 6"×4"×1.5"





850 WATT

- **•** TPP 850A-FK
- Medical safety approval Ultra compact design
- 24 to 48 VDC (adj.)
- Protection class I&II
- Contr. & monitor signals
- 6"×4"×2.5"



1000 WATT

TPI 1000

- **NEW** under development Compact design
- 12 to 48 VDC Protection class
- OVC III
- Standby power
- Screw terminals ■ 7.66"×4.02"×

Outdoor Power Supply

- Rugged power supplies for harsh oudoor environments
- Connection via waterproof I/O plug connectors
- Dust, water (incl. salt water), ice and oil resistant enclosure

120 WATT

TEX 120

- IP67 and NEMA 4X rated
- 12/24 VDC output Ind. EMC immunity
- Extensive safety approval package (incl. UL 508/ ATEX IEC/EN 61010-1 and more)



DIN-Rail Power Supplies

6 - 600 Watt

- Universal input (85-264 VAC)
- EN 55032 class B filter
- 3-Phase input for TSP 3P models
- International safety approval package including IEC/EN/UL 62368-1 and UL 508

15-60 WATT

- Fully encapsulated
- 5.0 to 48 VDC
- Single, dual, triple
- Low profile



TMP-C | 15-150 WATT

- Low profile plastic casing
- 5.0 to 24 VDC
- NEC class II (up to 90 W)
- DC-OK signal



TPC

TBL

6-90 WATT

- Low profile plastic casing
- 5.0 to 24 VDC
- High efficiency
- ErP-ready
- UL 1310 (NEC class II)
- EN 60335-1 (household)



☆ TBLC

24-240 WATT

- Slim plastic casing
- 5.0 to 48 VDC adjust.
- Screw or spring clamp connection
- DC-OK signal

TCL

30-120 WATT

- Robust plastic casing
- 5.0 to 48 VDC adjust.
- ErP-ready
- DC-OK signal



80-480 WATT

TIB

TSP

- Rugged metal casing
- Cost optimized design
- 12, 24, 48 VDC output
- High efficiency
- Active PFC
- Alternative side mounting



80-480 WATT

- UL HazLoc Class I, division 2 and ATEX certification
- Rugged metal casing
- 12, 24, 48 VDC output
- Cost optimized design
- High efficiency
- Active PFC

TIB-EX | 5

50-480 WATT

- Rugged metal casing
- 12 to 48 VDC adjust.
- IECEx/ATEXDC-OK signal



TSPC

TIS

72-600 WATT

- Rugged metal casing
- 12 to 48 VDC adjust.
- ATEX (opt.) approval
- Entire control signals



180-600 WATT

- Rugged metal casing
- 24 VDC adjust
- Wide input ranges 100/230-500 VAC
- Entire control signals



TSP-WR

50-600 WATT

- Low profile metal casing
- 12 to 72 VDC adjust
- Int. function modules



UPS Systems and Function Modules (DIN-Rail and Industrial Cabinets)

72 - 600 Watt

- System modules for Charging, Buffering, Powersharing, Redundancy, Oring or Freewheeling
- Modules with battery interfaces providing fully integrated fail save DC power solutions (UPS)
- Solutions for further upgrading TRACO POWER power supplies or function modules

UPS SYSTEM

240 WATT TSPC 240UPS

- Power Supply with integrated Battery management module
- 24 VDC output, tightly reg. also in power fail mode
- Use with 12 VDC battery



BATTERY CONTROLLER MODULES

360 WATT TSP-BCMU360

- Universal module
- For 24 & 48 VDC, tightly reg. also in power fail mode
- Use with 12 VDC battery
- No remote link to PS
- Also for redundant operation



72-600 WATT

TSP-BCM

- TSP Series access & module
- For 12, 24, 48 VDC models



240 WATT

TIB-BCMU240

NEW under development

- Universal module
- For 24 VDC, tightly reg. also in power fail mode
- Use with 24 VDC battery
- No remote link to PS
- For redundant operation



BUFFER MODULE

600 WATT

TSP-BFM

- Universal module
- For any 24 VDC source
- 120 Ws buffer energy
- No batteries
- No remote link to PS



REDUNDANCY MODULES

600 WATT

TSPC-DCM

- Decoupling module (no signal outputs)
- For 5-28 VDC
- 2 inputs, 25 A max.
- No remote link to PS
- Rugged metal casing

- DC-OK signal output
- Robust plastic casing



TIB-REM480

NEW under development

- Redundancy module
- For 12-54 VDC
- 2 inputs, 20 A nom.
- >99% efficiency
- No remote link to PS

360-600 WATT

Convection cooled



TSP-REM

- TSP series access modules
- Active current sharing
- For 24 VDC, 2 inputs
- Alarm signal
- Remote On/Off
- Rugged metal casing



240 WATT TPC-REM

- TPC series access modules
- Active current sharing
- For 24 or 48 VDC models
- 2 Inputs, 240 W
- **TCL-REM**



- For 5-60 VDC
- 2×5 A-10 A

480 WATT

- out max.
- No remote link to PS (no signal outputs)
- Slim plastic casing





TRACO POWER dedicated to design and production of high quality, state-of-the-art DC/DC&AC/DC power conversion products. Our mission is to provide optimal power supply solutions for specific applications with regard to performance, quality, cost and functionality.

TRACO POWER stocks an average of USD 25+ million in available finished goods inventory for immediate shipment through our distribution partners.

TRACO POWER offers extended product life-cycles, typically 10+ years, and our products are supported by a 3 or 5 year product warranty. We understand our customers require a high quality solution as well as a diverse product offering, availability from stock, extended life-cycles and a strong commitment to quality in the form of extended warranty to support their business.

Our other selection guides / catalogues



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